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L6: Entry 1 of 1

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TITLE: Nucleic acids encoding 3-ketoacyl-ACP reductase from Moraxella catarrhalis

DATE-ISSUED: October 14, 2003

## INVENTOR-INFORMATION:

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435/440, 435/70.1, 435/71.1, 536/23.2, 536/24.32

## CLAIMS:

What is claimed is:

1. A purified or isolated nucleic acid consisting essentially of a nucleotide sequence that encodes the same 3-ketoacyl-ACP-reductase encoded by nucleotides 31291 to 31908 of SEQ ID NO:13 or a nucleotide sequence fully complementary thereto.
2. A recombinant construct comprising a nucleotide sequence that encodes the same 3-ketoacyl-ACP-reductase encoded by nucleotides 31291 to 31908 of SEQ ID NO:13, or a nucleotide sequence fully complementary thereto, operably linked to a promoter.
3. A method of making 3-ketoacyl-ACP-reductase of Moraxella catarrhalis comprising: obtaining a nucleic acid consisting essentially of a nucleotide sequence that encodes the same 3-ketoacyl-ACP-reductase encoded by nucleotides 31291 to 31908 of SEQ ID NO:13; inserting said nucleic acid in an expression vector such that said nucleic acid is operably linked to a promoter; and introducing said expression vector into a host cell whereby said host cell produces the protein encoded by said nucleic acid.
4. The method of claim 3, further comprising isolating the protein.
5. The method of claim 3, wherein said nucleic acid sequence consists essentially of nucleotides 31291 to 31908 of SEQ ID NO:13 or a nucleotide sequence fully complementary thereto.
6. A method for constructing a host cell that expresses 3-ketoacyl-ACP-reductase of Moraxella catarrhalis comprising introducing a recombinant

construct comprising a promoter operably linked to a nucleic acid comprising a nucleotide sequence that encodes the same 3-ketoacyl-ACP-reductase encoded by nucleotides 31291 to 31908 of SEQ ID NO:13 into said cell.

7. The method of claim 6, wherein said nucleic acid sequence consists essentially of nucleotides 31291 to 31908 of SEQ ID NO:13 or a nucleotide sequence fully complementary thereto.

8. The purified or isolated nucleic acid of claim 1 wherein said nucleic acid sequence consists essentially of nucleotides 31291 to 31908 of SEQ ID NO:13 or a nucleotide sequence fully complementary thereto.

9. An isolated expression construct comprising nucleotides 31291 to 31908 of SEQ ID NO:13 which encodes 3-ketoacyl-ACP-reductase, or a nucleotide sequence fully complementary thereto, operably linked to a promoter.

10. A vector comprising the purified or isolated nucleic acid of any one of claims 1 or 8.

11. The vector of claim 10, wherein the isolated nucleic acid is operably linked to a promoter.

12. The vector of claim 11, wherein the vector is an expression vector.

13. A cultured cell line comprising the vector of claim 10.

14. A purified or isolated oligonucleotide consisting essentially of a fragment of a nucleic acid having the nucleotide sequence of nucleotides 31291 to 31908 of SEQ ID NO:13 or a sequence complementary thereto, wherein said oligonucleotide is at least 22 nucleotides in length.

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)